AMENDMENTS TO THE CLAIMS:

Claims 1-7 (cancelled).

8. (currently amended) A fundus camera comprising an ~~An~~ optical system, ~~such as for a fundus camera, which has~~ with a substantially coaxial illumination beam path and imaging beam path, the optical system comprising:

a lens system of at least four lenses;

wherein at least two lenses of ~~these~~ the at least four lenses ~~being~~ are tilted with respect to their optical axes relative to the illumination beam path and imaging beam path;

wherein the optical axes of ~~said~~ the two lenses and optical axis of the illumination beam path and imaging beam path ~~lying~~ lie in a first plane;

wherein at least two other lenses of the at least four lenses ~~being~~ are tilted with respect to their optical axes relative to the illumination beam path and imaging beam path; ~~and~~

wherein the optical axes of the two other lenses and optical axis of the illumination beam path and imaging beam path ~~lying~~ lie in a second plane which intersects the first plane substantially along the optical axis of the illumination beam path and imaging beam path; and

wherein the optical axis of the illumination beam path and imaging beam path penetrates the lens outside their optical axes.

9. (currently amended) The ~~optical system~~ fundus camera according to claim 8, wherein the first plane and the second plane extend substantially perpendicular to one another.

10. (cancelled)

11. (currently amended)   The ~~fundus camera~~optical system according to claim 8, wherein the optical axes of the lenses are arranged outside the beam bundle of the illumination beam path and imaging beam path.

12. (currently amended)   The ~~fundus camera~~optical system according to claim 8, wherein the lenses comprise lens segments.

13. (currently amended)   The ~~fundus camera~~optical system according to claim 8, wherein at least one of the lenses has an aspheric surface.

14. (currently amended)   The ~~fundus camera~~optical system according to claim 8, wherein at least one lens is replaced by a diffractive optical element.